

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	2	Lam Ping Kuen	US-PGPUB; USPAT; EPO; JPO; DERWENT	WITH	ON	2005/06/08 10:12
S78	566	murphy NEAR michael	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/07 15:59
S79	9	ronfard NEAR vincent	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/07 16:00
S80	3	S78 and skin and fibroblast	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/07 16:00
S81	65144	skin SAME (equivalent construct device artificial)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/07 16:03
S82	12883	skin SAME (collagen decorin fibronectin tenascin glycosaminoglycans)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/07 16:03
S83	583	skin SAME (collagen decorin fibronectin tenascin glycosaminoglycans).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/07 16:04
S84	5327	skin SAME (equivalent construct device artificial).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/07 16:03
S85	87	S83 and S84	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/08 10:12

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(FILE 'HOME' ENTERED AT 11:58:04 ON 08 JUN 2005)

FILE 'MEDLINE, CANCERLIT, AGRICOLA, CAPLUS, SCISEARCH' ENTERED AT  
11:58:15 ON 08 JUN 2005

L1 21717 S SKIN (L) (ARTIFICIAL OR EQUIVALENT OR DEVICE OR CONSTRUCT)  
L2 39814 S FIBROBLAST AND COLLAGEN  
L3 67637 S KERATINOCYTE  
L4 578 S L1 (L) L2 (L) L3  
L5 36 S L4 AND BILAYER?  
L6 28 DUP REM L5 (8 DUPLICATES REMOVED)  
L7 10 S L6 AND PY<=1998  
L8 10 SORT L7 PY  
L14 348 S L1 AND (KERATINOCYTE (5W) (ON FIBROBLAST))  
L15 127 S L14 AND PY<=1998  
L16 61 S L15 AND COLLAGEN  
L17 61 FOCUS L16 1-  
L18 31 S L17 AND (LAYER? OR SEED? OR OVER OR ON)  
E MURPHY MICHAEL?/AU  
E RONFARD VINCENT?/AU  
L19 14 S E1  
L20 11 S E2  
L21 25 S L19 OR L20  
L22 6 S L1 AND L21  
L23 4 DUP REM L22 (2 DUPLICATES REMOVED)

=> d an ti so au ab pi l23 1-4.

L23 ANSWER 1 OF 4 MEDLINE on STN DUPLICATE 1  
AN 2004505435 MEDLINE  
TI Combined use of a collagen-based dermal substitute and a fibrin-based cultured epithelium: a step toward a total skin replacement for acute wounds.  
SO Burns : journal of the International Society for Burn Injuries, (2004 Nov) 30 (7) 713-9.  
Journal code: 8913178. ISSN: 0305-4179.  
AU Mis Beatrice; Rolland Eric; Ronfard Vincent  
AB Integra, a dermal replacement, is used as an immediate and temporary coverage for acute wounds, after which, autograft is used to reconstitute permanently the epidermal coverage. The fibrin sheet-cultured epithelium autograft (FS-CEA) could provide an effective alternative to the surgical procedure. To evaluate this hypothesis, we compared the association of Integra/FS-CE to Integra/control-cultured epithelium (control-CE). Their respective abilities: (1) to produce dermal-epidermal **construct** in vitro; (2) to generate **skin** replacement when grafted onto athymic mice were studied. We have shown that: (1) 83% of the FS-CE attached to the **artificial** dermis in vitro compared to only 33% for control-CE; (2) retraction of the grafted area was significantly lower 2 weeks after grafted with FS-CE than with the control-CE (P < 0.05); (3) 83% of the mice grafted with FS-CE showed the presence of a differentiated human epidermis 21 days after grafting, while such an epidermis was absent in all the animals of the control-CE group. We found that the use of FS-CE greatly improved adhesion, development of the epithelium and graft take onto the **artificial** dermis. We believe this technology should significantly improve the performance of dermal-epidermal **skin** replacement for acute wounds.

L23 ANSWER 2 OF 4 MEDLINE on STN DUPLICATE 2  
AN 2003072369 MEDLINE  
TI Long-term remodeling of a bilayered living human **skin** equivalent (Apligraf) grafted onto nude mice: immunolocalization of human cells and characterization of extracellular matrix.  
SO Wound repair and regeneration : official publication of the Wound Healing Society [and] European Tissue Repair Society, (2003 Jan-Feb) 11 (1) 35-45.  
Journal code: 9310939. ISSN: 1067-1927.  
AU Guerret Sylviane; Govignon Emmanuel; Hartmann Daniel J; Ronfard Vincent  
AB Type I collagen is a clinically approved biomaterial largely used in

tissue engineering. It acts as a regenerative template in which the implanted collagen is progressively degraded and replaced by new cell-synthesized tissue. Apligraf, a bioengineered living skin, is composed of a bovine collagen lattice containing living human fibroblasts overlaid with a fully differentiated epithelium made of human keratinocytes. To investigate its progressive remodeling, athymic mice were grafted and the cellular and the extracellular matrix components were studied from 0 to 365 days after grafting. Biopsies were analyzed using immunohistochemistry with species-specific antibodies and electron microscopy techniques. We observed that this bioengineered tissue provided living and bioactive cells to the wound site up to 1 year after grafting. The graft was rapidly incorporated within the host tissue and the bovine collagen present in the graft was progressively replaced by human and mouse collagens. A normal healing process was observed, i.e., type III collagen appeared transiently with type I collagen, the major collagen isoform present at later stages. New molecules, such as elastin, were produced by the living human cells contained within the graft. This animal model combined with species-specific immunohistochemistry tools is thus very useful for studying long-term tissue remodeling of bioengineered living tissues.

L23 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:351643 CAPLUS

DN 132:331698

TI Bioengineered tissue constructs and methods for producing and using them

SO PCT Int. Appl., 68 pp.

CODEN: PIXXD2

IN Murphy, Michael P.; Ronfard, Vincent

AB Cultured tissue constructs comprising cultured cells and endogenously produced extracellular matrix components without the requirement of exogenous matrix components or network support or scaffold members. Some tissue constructs of the invention are comprised of multiple cell layers or more than one cell type. The tissue constructs of the invention have morphol. features and functions similar to tissues and their strength makes them easily handleable. Preferred cultured tissue constructs of the invention are prepared in defined media, i.e., without the addition of chemical undefined components.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000029553	A1	20000525	WO 1999-US27505	19991119
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2351396	AA	20000525	CA 1999-2351396	19991119
EP 1131410	A1	20010912	EP 1999-962807	19991119
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
BR 9915476	A	20020102	BR 1999-15476	19991119
JP 2002530069	T2	20020917	JP 2000-582537	19991119
AU 769637	B2	20040129	AU 2000-19171	19991119
US 2002172705	A1	20021121	US 2000-523809	20000313

L23 ANSWER 4 OF 4 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

AN 1999:326794 SCISEARCH

TI Development of a pig living skin equivalent as an animal model to study skin regeneration using cultured cells

SO JOURNAL OF INVESTIGATIVE DERMATOLOGY, (APR 1999) Vol. 112, No. 4, pp. 318-318.

Publisher: BLACKWELL SCIENCE INC, 350 MAIN ST, MALDEN, MA 02148.

ISSN: 0022-202X.

AU Ronfard V (Reprint); Potzka J; Govignon E; Rheinwald J G